

Kindly replace the claims with the following claim listing:

1. (Currently Amended) An apparatus serving as an indoor communications wireless distribution system to communicate with wireless communications devices located within an internal space of a structure, the apparatus comprising:

a radio base station or a repeater device comprising an external antenna and a bidirectional amplifier;

at least one internally installed antenna device adapted to receive and transmit via the radio base station or repeater device;

a central control unit interfacing between the radio base station or repeater and the at least one internally installed antenna device for detecting and reducing interference within the indoor wireless network;

at least one antenna attenuation control unit coupled to a respective at least one internally installed antenna device for interfacing between the respective at least one internally installed antenna device and the central control unit, and for controlling the attenuation of the respective-at least one internally installed antenna device;

wherein said central control unit is adapted to identify interference originating from the respective-at least one internally installed antenna device, and to instruct the coupled antenna attenuation control unit to attenuate transmissions from the interfering-at least one internally installed antenna device causing the interference;- and

wherein the at least one antenna attenuation control unit further comprises:

a bias tee or a DC Inserter comprising a capacitor and choke for receiving a signal and associated at least one control command embedded in the signal from the central control unit through a signal path and for further separating a DC power component from an RF component of the signal and feeding the power component to a power supply unit;

a coupler for sampling the RF component without attenuating the signal;

a band pass filter for attenuating the frequency range of the RF component while maintaining the frequency range of the at least one control command;

a decoder for decoding the at least one control commands and feeding the gain controller with the at least one control command;

a gain controller for controlling the operation of the RF attenuator, and;

an RF attenuator for feeding the RF component to the at least one internally installed antenna device.

2. (Original) The apparatus of claim 1 wherein the repeater device is a bi-directional amplifier mini-repeater.

3. (Original) The apparatus of claim 1 wherein the at least one internally installed antenna device is a multi-band vertical polarization indoor omni-directional antennas.

4. (Original) The apparatus of claim 1 further comprising an at least one repeater attached to the at least one antenna attenuation control unit for enhancing the broadcast of the at least one internally installed antenna associated with the at least one antenna attenuation control unit.

5. (Previously Presented) The apparatus of claim 1 wherein the central control unit is adapted to detect the source antenna of the interference by sampling at least one uplink signal.

6. (Previously Presented) The apparatus of claim 1 wherein the central control unit is adapted to command the at least one antenna attenuation control unit to attenuate the signal strength received from the associated antenna device.

7. (Canceled).

8. (Previously Presented) The apparatus of claim 1 wherein the central control unit is adapted to reduce or eliminate the interference by commanding the at least one antenna attenuation control unit to disconnect or lower the level of transmission of the associated at least one internally installed antenna device.

9. (Previously Presented) The apparatus of claim 1 wherein the central control unit includes a coupler device that is adapted to sample signals without interfering with the transferred signal, thereby identifying the blocking of transmission frequencies or an interference signal that is not a wireless signal.

10. (Previously Presented) The apparatus of claim 1 wherein the central control unit is adapted to sample signals and identify non-wireless signals generating interference.

11. (Previously Presented) The apparatus of claim 1 wherein the central control unit is adapted to issue at least one command signal to the at least one antenna attenuation control unit for disconnecting or attenuating the at least one internally installed antenna device.

12-13. (Canceled).

14. (Currently amended) The apparatus of claim 13 further comprising an RF switch for switching off and on the at least one internally installed antenna device.

15. (Currently amended) The apparatus of claim 13 wherein the at least one decoded control command is designed to be fed to the RF switch for instructing the switch to switch on or off the antenna device.

16. (Currently amended) The apparatus of claim 13 wherein the RF attenuator is adapted to respond to the gain controller output by attenuating the signal or by increasing the strength of the signal.

17. (Currently amended) The apparatus of claim 13 wherein the RF attenuator is adapted to feed a variable strength signal back to the bias tee which in turn is adapted to feed the RF signal back to the central control unit for re-sampling by the central control unit for the detection of interference.

18. (Currently amended) The apparatus of claim 13 further comprising a power supply unit for feeding power to the components of the at least one antenna attenuation control unit.

19. (Currently amended) An apparatus serving as an indoor communications wireless distribution system to communicate with wireless communications devices located within an internal space of a structure, the apparatus comprising:

a radio base station or a repeater device comprising an external antenna and a bidirectional amplifier;

at least one internally installed antenna device adapted to receive and transmit via the radio base station or repeater device;

a central control unit interfacing between the radio base station or repeater and the at least one internally installed antenna device for detecting and reducing interference within the indoor wireless network;

at least one antenna attenuation control unit coupled to a respective at least one internally installed antenna device for interfacing between the respective at least one internally installed antenna device and the central control unit, and for controlling the attenuation of the respective at least one internally installed antenna device;

wherein said central control unit is adapted to identify interference originating from the respective at least one internally installed antenna device, and to instruct the coupled antenna attenuation control unit to attenuate transmissions from the interfering at least one internally installed antenna device causing the interference; and

The apparatus of claim 1 wherein the central control unit further comprises:

a bias tee for inserting power into the signal transmitted to the at least one antenna attenuation control unit;

a high pass filter comprising a frequency selective circuit for blocking the transmission of at least one control command to the external antenna;

a coupler for sampling the signal without degrading the signal or attenuate the strength of the signal;

a splitter unit for transmitting the at least one control command to the at least one antenna attenuation control unit and wireless signal to a band pass filter;

a wireless band pass filter comprising a frequency selective circuit for filtering the wireless signal;

an interference detector for detecting of interferences;

an antenna attenuation control unit controller for receiving output from the interference detector and activating the at least one antenna attenuation control unit; and

a control band pass filter comprising a frequency selective circuit for passing the at least one control command to the splitter unit for combining the at least one control command with the wireless signal.

20. (Original) The apparatus of claim 19 further comprising a power supply fed by a power network and generating power for the operation of the central control unit and the at least one antenna attenuation control unit.

21. (Original) The apparatus of claim 19 wherein the antenna attenuation control unit controller is installed within the radio base station for detecting interference in relation to a plurality of antennas or repeaters.

22. (Canceled).

23. (Currently Amended) An apparatus serving as an indoor communications wireless distribution system to communicate with wireless communications devices located within an internal space of a structure, the apparatus comprising:

a radio base station or a repeater device comprising an external antenna and a bidirectional amplifier;

at least one internally installed antenna device adapted to receive and transmit via the radio base station or repeater device;

a central control unit interfacing between the radio base station or repeater and the at least one internally installed antenna device for detecting and reducing interference within the indoor wireless network;

at least one antenna attenuation control unit coupled to a respective at least one internally installed antenna device for interfacing between the at least one internally installed antenna device and the central control unit, and for controlling the attenuation of the at least one internally installed antenna device;

wherein said central control unit is adapted to identify interference originating from the at least one internally installed antenna device, and to instruct the coupled antenna attenuation control unit to attenuate transmissions from the at least one internally installed antenna device causing the interference; and

further comprising an interference detection unit for the detection of interferences in an uplink signal;

~~The apparatus of claim 22~~ wherein the interference detection unit comprises:

at least one splitter unit for splitting an at least one signal into at least two similar signals;

an envelope detector for performing spectral analysis on the at least two similar signals and comparing the interference envelope with a predetermined wireless signal form;

at least one converter unit for converting the at least two similar signals from analogue to digital form.

a down converter unit for converting the at least two similar signals into an intermediate frequency,

a digital signal processor for processing the at least two similar signals in analog form,

a central processor unit for processing the at least two similar signals in digital form and for sending an at least one control command to control the attenuation of the at least one internally installed antenna device.

24. (Currently amended) The apparatus of claim ~~22-23~~ further comprising an intermediate frequency surface acoustic wave filter unit adapted to determine spectral energy distribution of a noise signal in a specific frequency band; at least one band width intermediate frequency band pass filter; and a multiplexer unit.

25. (Previously Presented) The apparatus of claim 23 wherein the central processor unit is adapted to recognize an interference element in the uplink signal by examining the strength of the signal relative to a pre-determined interference threshold.

26. (Previously Presented) The apparatus of claim 23 wherein the at least one converter is an analog-to-digital converter.

27. (Previously Presented) The apparatus of claim 23 wherein the central processor unit is adapted to recognize an interference element in the uplink signal by examining the stability of the signal or the signal strength along a time axis.

28. (Previously Presented) The apparatus of claim 23 wherein the central processor unit is adapted to recognize an interference element in the uplink signal by examining the spectral structure identified by the examination of the interference envelope at the extremities of the signal and the comparison of the detected envelope to the known structure of wireless signal.

29. (Previously Presented) The apparatus of claim 23 wherein the central processor unit is adapted to recognize an interference element in the uplink signal by examining the power level of the signal across pre-defined time slots and the time slot intervals.

30. (Previously Presented) The apparatus of claim 23 wherein the central processor unit is adapted to recognize an interference element in the uplink signal by examining the correlator of the base sequence of the control channel of the site.

31. (Previously Presented) The apparatus of claim 23 wherein the central processor unit is adapted to recognize an interference element in the uplink signal by examining statistics of uplink levels of at least one previously made transmission, compared to actual uplink levels for detecting readings outside the base level determined over the time.

32. (Previously Presented) The apparatus of claim 23 wherein the central processor unit is adapted to recognize an interference element in the uplink signal by examining the length of time between the start and ending of each interference signal detected.

33. (Previously Presented) The apparatus of claim 23 wherein the at least one control command provides for the switching off or on of the at least one internally installed antenna device.

34-46. (Canceled).